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OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

PART 70 OPERATING PERIVIT QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: U.S. Steel – Gary Works

Source Address: One North Broadway, Gary, Indiana 46402 Mailing Address: One North Broadway, Gary, Indiana 46402

Part 70 Permit No.: T089-7663-00121

Months: January 1 to March 31 Year: 2012 Page 1 of 1

| This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period". | | | | | |
|--|--|--|--|--|--|
| NO DEVIATIONS OCCURRED THIS REPORTING PERIOD. | | | | | |
| ★ THE FOLLOWING DEVIATIONS OCCURRED TH | | | | | |
| Permit Requirement (specify permit condition #): D.9. | | | | | |
| Date of Deviation: 03/19/2012 | Duration of Deviation: NA | | | | |
| Number of Deviations: 2 | | | | | |
| Probable Cause of Devlation: Ladle was late to t leaving his crane while the ladle for W furnace was | Probable Cause of Deviation: Ladle was late to the car. This was due to #5 ladle crane operator leaving his crane while the ladle for W furnace was being processed. | | | | |
| Response Stops Taken: Contact craneman to ens craneman must deboard crane for any reason. | sure that they do not block an in-process ladle when | | | | |
| Permit Requirement (specify permit condition # | e): D.9.4(c) | | | | |
| Date of Deviation: 03/23/12 | Date of Deviation: 03/23/12 Duration of Deviation: NA | | | | |
| Number of Deviations: 1 | | | | | |
| Probable Cause of Deviation: Flameup apparently due to charging wet scrap into a cold vessel. | | | | | |
| Response Steps Taken: Ensure BOP emergency scrap box is kept dry with either a tarp, moving the box inside, or putting it under a shelter. | | | | | |

| US Steel Gary Works Gary, Indiana Permit Reviewer, Gall McGarrily INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT Live of ANTI-LIVE OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION |
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| BART 70 OBERATING PERMIT |

PART 70 OPERATING PERMIT QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: U.S. Steel - Gary Works

Source Address: One North Broadway, Gary, Indiana 46402 Mailing Address: One North Broadway, Gary, Indiana 46402

Part 70 Permit No.: T089-7663-00121

Wonths: January 1 to March 31 Year: 2012 Page 1 of 1

| This report shall be submitted quarterly based on a c | | | | |
|--|--|--|--|--|
| the date(s) of each deviation, the probable cause of the remoted Admission required to be reported by: | ig to the schedule stated in the applicable requirement. Itional pages may be attached if necessary. If no | | | |
| ☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD. | | | | |
| | HIS REPORTING PERIOD. | | | |
| Permit Requirement (specify permit condition #) | C.1(b) | | | |
| Date of Deviation: 01/20/12 | Duration of Deviation: Not applicable | | | |
| Number of Deviations: 1 | | | | |
| Probable Cause of Deviation: #4 condensing To batteries, which resulted in the gas being ignited thro | urbine Boosters tripped and caused suction to be lost to the ough the emergency flare system. | | | |
| | | | | |
| Response Steps Taken: Pressure regulator adjust Flare Stack Evaluation; Complete steam balance for oil system to fall over; Contact Elliot technican; Taken | stments on oil rectrculation system; Operator Log Revision; r Coke Plant, Bryerton Steam delivery evaluation; Review ke vibration readings on #1 and #4 Booster. | | | |
| Flare Stack Evaluation; Complete steam balance to oil system to fall over; Contact Elliot technican; Tal | ke vibration readings on #1 and #4 Booster. | | | |
| Flare Stack Evaluation; Complete steam balance for oil system to fall over; Contact Elliot technican; Tale Permit Requirement (specify permit condition #) | ke vibration readings on #1 and #4 Booster. | | | |
| Flare Stack Evaluation; Complete steam balance for oil system to fall over; Contact Elliot technican; Tale Permit Requirement (specify permit condition #) Dotte of Deviation: 01/27/12 Number of Deviations: 1 | Coke Plant, Bryenon Steam delivery evaluation, Nevicw ke vibration readings on #1 and #4 Booster. Duration of Deviation: Not applicable | | | |
| Flare Stack Evaluation; Complete steam balance for oil system to fall over; Contact Elliot technican; Tale Permit Requirement (specify permit condition #) Dotte of Deviation: 01/27/12 Number of Deviations: 1 | Coke Plant, Bryenon Steam delivery evaluation, Nevicw ke vibration readings on #1 and #4 Booster. 2.2.27 Duration of Deviation: Not applicable r designed the roads and walkways from the snowfall, which | | | |

| US Sleel Gary Works | 10891/7663-00121 | | | | |
|--|--|--|--|--|--|
| Permit Reviewer, Gall McGardly | Control of the contro | | | | |
| Parnit Ratultament (specify permit Co | 1. (ii.)()(i) (2.22 ii.)() ndition \$\psi\$ (6.47(b)) | | | | |
| Date of Deviation: 01/29/12 | Duration of Deviation: Not applicable | | | | |
| US Steel-Gary Works Gery Indiana Permit Reviewer: Gall McGarnity Permit Requirement (specify permit condition #) C 1(b) Date of Deviation: 01/29/12 Number of Deviations: 1 | | | | | |
| Probable Cause of Deviation: Leak neutral. There was not enough air to co | Probable Cause of Deviation: Leakages into the end flues and directly off of stack when the battery went to neutral. There was not enough air to combust with the Coke Oven Gas. | | | | |
| Response Steps Taken: Determine how to calibrate the main supply pressure transmitter without having to put the battery in neutral; revise work order instructions for the main supply pressure transmitter and both underfire pressure transmitters and install a warning light device to alert of opacity issue. | | | | | |
| Permit Requirement (specify perm | nlt condition #) D.2.4(e)(1), D.2.5(c) | | | | |
| Date of Deviation: 03/24/12 | Duration of Deviation: Not applicable | | | | |
| Number of Deviations: 1 | | | | | |
| Probable Cause of Deviation: 6 leaking offtakes of 100 observed | | | | | |
| Response Steps Taken: Break down old sealing material off the bases and reseal. | | | | | |
| Permit Requirement (specify perm | nit condition #) C.1(a) and D.2.5(i) (See Attachment) | | | | |
| Date of Deviation: Duration of Deviation: Not applicable | | | | | |
| Number of Deviations: | | | | | |
| Probable Cause of Deviation: | | | | | |
| Response Steps Taken: | | | | | |

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document is true, accurate and complete.

| | Form Completed By: | James R. Penman | | |
|-------|---------------------|-----------------------------------|--|--|
| | | Division Manager, Coke Operations | | |
| : 191 | Пекрисиче 1 год ста | 7 8 1 2 | | |
| . Hi | Date: | April 16, 2012 | | |
| | Phone: | 219.888.4028 | | |
| | | | | |

14 144

| US Sieel-Gary Works Gary, Indiants Parmit Reviewer: Gull McGarriy The state of t |
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| INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION |
| PART 70 OPERATING PERMIT |

PART 70 OPERATING PERMIT QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: U.S. Steel - Gary Works

Source Address: One North Broadway, Gary, Indiana 46402 Mailing Address: One North Broadway, Gary, Indiana 46402

Part 70 Permit No.: T089-7663-00121

Months: January 1 to March 31 Year: 2012

| | | Pag | e 1 of 1 | | | |
|--|--|--|----------|--|--|--|
| the date(s) of each deviation, the be reported. A deviation required independent of the permit, shall and does not need to be include | e probable cause of the discount of the discou | lendar year. Any deviation from the requirements e deviation, and the response steps taken must ant to an applicable requirement that exists to the schedule stated in the applicable requiren onal pages may be attached if necessary. If no "No deviations occurred this reporting period". | | | | |
| ☐ NO DEVIATIONS OCCURR | RED THIS REPORTING | PERIOD. | | | | |
| | IONS OCCURRED TH | IS REPORTING PERIOD. | | | | |
| Permit Requirement (specify p | ermit condition #): C.1 | (a) | | | | |
| Date of Deviation: 01/06/20 |)12 | Duration of Deviation: N/A | | | | |
| Number of Deviations: 1 | | | | | | |
| Probable Cause of Deviation position, causing the release | Probable Cause of Deviation: The cast at #1 cast hole was initiated with the damper in the closed position, causing the release of emissions, which resulted in a PM 10 exceedence. | | | | | |
| Response Steps Taken: R position indication lights on ca permissive to existing MMI to | ist floor: Open damper a | ng employees on casting procedure; Install damper it #1 cast hole and continue the cast; Investigate ad before cast begins. | ding | | | |
| I certify that, based on informat information in this document is | true, accurate and co | after reasonable inquiry, the statements and mplete. | | | | |
| Form Completed By: Jason W. Entwistle | | | | | | |
| Title/Position: Division Manager, Iron Producing | | | | | | |
| Date: | Date: April 12, 2012 | | | | | |
| Phone: 219.888.4688 | | | | | | |

United States Steel Corporation GW - Primary - Coke Plant **EIRS Incident Screen Print**

GW-Primary00134

<u>Incident</u>

Short Description:

Type:

Reported By:

Date Received:

Entered By:

Date Occurred:

Incident State: **Process Unit:**

Description:

Ended

No. 7 Battery

VERIF - Booster Trip

Air Requirement

Mardanna Soto

Mardanna Soto

1/21/2012 9:17 AM

1/20/2012 5:12 PM

Location:

Status:

Phone:

USS / Transtar

Employee?

End Date:

Offsite?

No 7 Battery Underfire

1/20/2012 5:39 PM

Open

2339

Yes

Nο

The boosters in the Chemicals area of the Coke Plant provide evacuation of the raw coke oven gas evolved during the coking process. At 5:10 pm on Friday, January 20, 2012, #4 condensing Turbino Boosters tripped and caused suction to be lost to the batteries, which resulted in the gas being ignited through the emergency flare system. At the time of the

incident, the

booster's steam driven oil pump was operating with the electric pump as an automatic backup. The operator line data sheets being completed provided incorrect operating limits for the governor and bearing oil pressure for the operation of #4 Booster. The operator line data sheets indicated an operating range of 6-12 psig. for the bearing oil while the actual operating range was 24-18 with an emergency trip point of 10 psig. During the time when excess raw coke oven gas was being flared, the back pressure in the battery gas system resulted in excessive leakage from the oven chambers into the combustion flues which was directed to the stack causing the excessive emissions resulting in the deviation. Coke Plant personnel started #1 topping turbine booster, and normal operations returned at 5:55 pm.

Mardanna Soto

Air

Yes

CPAR Required? 1/20/2012 6:00 AM

Method of Contact:

Direct Contact

No

CPAR #:

Severity:

Additional Information

Environmental Contact:

Date Contacted:

Media:

Has the initial report been

confirmed?

Were changes to the initial report No required?

Reportable?

Associated:

Permit/Citation Ref/Plan

Additional Comments:

Root Cause Determination:

Yes - Agency Reportable

Deviation (Y/N):

Outside Impact?

Confirmation Method:

No Yes

High

Monitoring

The Bearing oil pressure dropped below 10psig due to a drop in the 150pound steam system pressure. The system is designed to fall over from the steam pump to an electric oil pump if steam pressure is lost. The fallover logic is dependent on the proper setting of the governor oil pressure which was not correctly adjusted, (60 psig is the operating set point for the govenor oil pressure), therefore allowed the bearing oil pressure to drop below the set point and shut down the booster. The governor oil pressure did not reach a point where the electric pump activated.

The #4 booster does not produce 150 lb steam like the other boosters. As a result, 150 lb steam pressure is lower when this booster is on line by itself due to the limitations of the distribution system to provide adequate steam to support the normal 150# load.

United States Steel Corporation GW - Primary - Coke Plant **EIRS Incident Screen Print**

Associated with another incident? No

Associated Incident

Number?

Health and Safety?

No

Incident Classification:

Initiating Event: Include in Rates and Counts?

No

Category:

Incident Detail

Incident Sub-Type:

Self Observed Event

Type of air requirement: Title V Permit

Type of

COMS

COMS or # CEMS:

deviation/exceedance/regulation:

Cause:

The Bearing oil pressure dropped below 10psig due to a drop in the 150pound steam system pressure. The system is designed to fail over from the steam pump to an electric oil pump if steam pressure is lost. The failover logic is dependent on the governor oil pressure dropping below 60 psi. While the bearing oil pressure dropped below the setpoint to shut down the booster, the governor oil pressure did not reach a point where the electric pump would be activated.

The #4 booster does not produce 150 lb steam like the other boosters. As a result, 150 lb

steam pressure is lower when this booster is on line by itself.

Control & Counter Measure:

n/a

Materials

No Data

Regulatory Notifications

No Data

Incident Investigation List

| Investigation Number | Start Date | End Date |
|----------------------|------------|-----------|
| GW-Primary00134 | 1/20/2012 | 1/23/2012 |

Incident Investigation Detail

Incident Investigation: GW-Primary00134

Start Date: End Date:

1/20/2012

1/23/2012

Potential Severity:

N/A

Potential Recurrence:

N/A

Incident Cause:

| Preventative Action | Deadline | By Whom | Completion Date |
|---------------------|----------|---------|--------------------|
| | | | |

| Team Member | Email |
|-------------|-------|
| | |

Corrective Actions List

| 721 | Corrective Action | Status |
|-----|-------------------|--------|
| | | |

United States Steel Corporation GW - Primary - Coke Plant EIRS Incident Screen Print

| Corrective Action | Status |
|--|-----------|
| C - Contact Elliot technican | Closed |
| C - Pressure regulator adjustments on oil recirculation system | Closed |
| C - Switch out oil filters - Not related to root cause. | Closed |
| P - Take vibration readings on #1 and #4 Booster | Closed |
| C - Operator Log Revision | Completed |
| P - Bryerton Steam delivery evaluation | Closed |
| P - Complete steam balance for Coke Plant | Completed |
| P - Flare Stack Evaluation | Closed |
| P - Review oil system to fail over | Closed |

Corrective Actions Detail

Corrective Action: C - Contact Elliot technican

Author: ELY, MIKE Author Date: 1/20/2012

CAI#:

Notes: C Contact Elliot technican to help determine root cause failure.

Manager: 12601 Status: Closed

Priority:

Origin Cause:

Proposed Corrective Action: Contact Elliot technican to help determine root cause failure.

Proposed Completion Date: 1/31/2012

Revised Completion Date:

Site Response:

Assigned To: ELY, MIKE

Externally Controlled: Review on Completion:

Actual Corrective Action: Elliot technican examined and gave written report to Ely.

Actual Completion Date: Jan 26, 2012 12:00:00 AM

Verified By: Date Verified:

Corrective Action: C - Pressure regulator adjustments on oil recirculation system

BISH, KEVIN Author: 1/20/2012 Author Date:

CAI#:

The governor oil pressure switch that was in use on the day of the incident was not Notes:

adjustable to the new desired set point of 75psi. Therefore a new pressure switch was

installed that allows for the pressure to be controlled at the new set point.

Manager: 11588 Status:

Closed Priority:

Origin Cause:

Adjust governor oil pressure switch to activate automatically in order to start the back-up Proposed Corrective Action: oil pump on #1 Booster to ensure bearing oil pressure is maintained above machine trip

point.

Proposed Completion Date: 2/11/2012

Revised Completion Date:

Site Response:

Assigned To: BISH, KEVIN

Externally Controlled:

United States Steel Corporation GW - Primary - Coke Plant **EIRS Incident Screen Print**

Review on Completion: Actual Corrective Action:

Actual Completion Date:

Feb 9, 2012 12:00:00 AM

Verified By: Date Verified:

Corrective Action: C - Switch out oil filters - Not related to root cause.

Author:

ELY, MIKE

Author Date:

1/21/2012

CAI#:

Notes:

Manager:

12601

Status:

Closed

Priority:

Origin Cause:

Proposed Corrective Action:

Switch out oil filters.

Proposed Completion Date:

1/21/2012

Revised Completion Date:

Site Response:

Assigned To:

ELY, MIKE

Externally Controlled:

Review on Completion:

Actual Corrective Action:

Switched out oil filters.

Actual Completion Date:

Jan 21, 2012 12:00:00 AM

Verified By: Date Verified:

Corrective Action: P - Take vibration readings on #1 and #4 Booster

Author:

ELY, MIKE

Author Date:

1/21/2012

CAI#:

See attached file for data.

Notes: Manager: Status:

12601 Closed

Priority:

Origin Cause:

Proposed Corrective Action:

Take vibration readings on #1 and #4 booster and compare to the last readings. 1/21/2012

Proposed Completion Date:

Revised Completion Date: Site Response:

See attached two files for vibration data.

Assigned To:

Externally Controlled:

Review on Completion: **Actual Corrective Action:**

Take vibration readings on #1 and #4 booster and compare to the last readings. Jan 21, 2012 12:00:00 AM

Actual Completion Date:

Verified By:

Date Verified:

Corrective Action: C - Operator Log Revision

Author:

ELY, MIKE 1/27/2012

Author Date:

CAI#: Notes:

Manager:

Status:

Completed

Priority: Origin Cause:

Proposed Corrective Action:

Make revisions to the operator logs to insure that the proper operating limits, (different for each booster), are being considered based on the booster that is in operation at the time

United States Steel Corporation GW - Primary - Coke Plant EIRS Incident Screen Print

as well as Identifying the automatic trip settings for the parameters involved. Set point

numbers will be included in the incident report for future reference.

Proposed Completion Date: Revised Completion Date:

2/29/2012 2/27/2012

Site Response:

Assigned To:

ELY, MIKE

Externally Controlled: Review on Completion: Actual Corrective Action:

Actual Completion Date:

Feb 27, 2012 12:00:00 AM

Verified By: Date Verified:

Corrective Action: P - Bryerton Steam delivery evaluation

Author:

MCGUIRE, KEVIN

Author Date:

1/27/2012

CAI#:

Notes:

Manager: Status:

12053 Closed

Priority:

Origin Cause:

Contact a certified Engineering Company to assess and provide recommended Boiler

house steam piping configuration changes that will facilitate additional 150 lb steam to be

supplied to the coke plant from the boiler house to satisfy the maximum demand

requirements recognizing all possible operating boiler configurations.

Proposed Completion Date:

Revised Completion Date:

Proposed Corrective Action:

4/30/2012

Site Response:

Assigned To:

Completed per Kevin McGuire. Will attach documentation when forwarded by Kevin.

Externally Controlled: Review on Completion: Actual Corrective Action:

Actual Completion Date:

Apr 20, 2012 12:00:00 AM

Verified By: Date Verified:

Corrective Action: P - Complete steam balance for Coke Plant

Author:

ELY, MIKE 1/27/2012

Author Date:

CAI #: Notes:

Manager:

.....

12601 Completed

Priority: Origin Cause:

Status: Co

Proposed Corrective Action:

Evaluate the steam requirements for the Coke Plant with different operational scenarios.

These scenarios are to include the operation of a single topping turbine, a single

condensing turbine, a topping turbine and a condensing turbine in parallel and the loss of

all electricity in the Coke plant.

Proposed Completion Date:

Revised Completion Date:

2/29/2012 3/9/2012

Site Response:

Steam balance was completed and plan to review on 3-9-2012.

Assigned To:

ELY, MIKE

Externally Controlled: Review on Completion:

Actual Corrective Action:

Actual Completion Date:

Mar 2, 2012 12:00:00 AM

United States Steel Corporation GW - Primary - Coke Plant **EIRS Incident Screen Print**

Verified By: Date Verified:

Corrective Action: P - Flare Stack Evaluation

Author:

BISH, KEVIN

Author Date:

1/27/2012

CAI#:

Notes:

Manager:

11588

Status: Priority:

Origin Cause:

Closed

Evaluate the current logic for opening and closing the flare stacks on the batteries to determine whether improvements can be made to minimize stack violations in the event of

Proposed Corrective Action:

a loss of suction 2/29/2012

Proposed Completion Date: Revised Completion Date:

3/9/2012

BISH, KEVIN

Site Response:

Jamie Penman directed that no changes be made to flare stack control in an effort to avoid

unknown related issues.

Assigned To:

Externally Controlled:

Review on Completion:

Actual Corrective Action:

Actual Completion Date:

Mar 15, 2012 12:00:00 AM

Verified By: Date Verified:

Corrective Action: P - Review oil system to fail over

Author:

Author Date:

ELY, MIKE 1/27/2012

CAI#:

Notes:

Manager: Status:

12601 Closed

Priority:

Origin Cause:

Proposed Corrective Action:

Review the logic for causing the oil system to fail over to consider governor oil pressure,

bearing oil pressure, and possibly 150 lb steam pressure.

Proposed Completion Date:

Revised Completion Date:

2/3/2012

Site Response:

Assigned To:

GORMLEY, STEPHEN

Externally Controlled: Review on Completion:

Actual Corrective Action:

Actual Completion Date:

Feb 3, 2012 12:00:00 AM

Verified By:

Date Verified:

Root Cause

No Data

Reviewers/Approvers

No Data

<u>Attachments</u>

United States Steel Corporation GW - Primary - Coke Plant EIRS Incident Screen Print

No Data

Witness Statements

No Data

<u>Tasks</u>

No Data

Lessons Learned

No Data